

the CARRIER



the MOUNT DIABLO AMATEUR RADIO CLUB

W6CX

MDARC FIELD DAY CALL W6CX

REPEATERS ON 147Mhz -- 220 Mhz -- 440 Mhz CALL W6CX/R

MEMORIAL CALL SIGN W6LGM

Volume XXXV

January 1987

Issue No. 1

MDARC CLUB CALENDAR

- 01 -- HAPPY NEW YEAR
- 07 -- MONTHLY MEETING OF
EMERGENCY COORDINATORS. STATE OES
REGION 2
- 16 -- GENERAL CLUB MEETING
- 20 -- EXECUTIVE BOARD MEETING
- 21 -- ROCKY RIDGE REPEATER GROUP

GENERAL: MDARC NET Thurs.
1930 PST. W6CX 147.06/+R

PARKY NET:

Every night 3895 khz. (+ -) QRM

NCN/VHF 1930 PST

CCRA NET 1935 PST. MON.

147.735/-R

CCATV NET Thurs. 2000 PST. 146/+R

RACES/ARES NETS Weekly Thurs.

Central 1900 PST 145.68/S

East 1900 PST 146.54/S

West 1900 PST 145.11/-R

South 1845 PST 147.555/S

ALL EMERGENCY NETS QSY TO

147.735/-R AT 1920 PST.

MEETING NOTICE

THIS MONTH'S MEETING WILL BE HELD AT
THE GRACE PRESBYTERIAN CHURCH
2100 TICE VALLEY BLVD.
WALNUT CREEK
8:00 P.M.

IN MEMORIAM

FREDERICK KIMBERLY SABOTT WA6JLF
Past - President of MDARC
and
His Wife Elizabeth Helen Sabott

December, 29 1986

REQUIEM AETERNUM

The Rocky Ridge Repeater Group of
MDARC meets every other month. NEXT
MEETING: JAN. 21, 1987. LOCATION:
Don Protzman K6LXW 134 Maricopa Dr.
Pleasant Hill. New members are
welcomed and long time members are
brought up to date on repeater
technology.

SUPPORT YOUR REPEATERS.

EDITOR: Carson C. Taylor .. K6TI .. 48 Mariposa Ct. Danville, Ca. 94526 (415) 820 - 5297

Circulation Manager: Dr. George Jones (415) 837 - 9316

President:	WB6PQM	Scott Miles	12 Big Oak Ct. W. C.	934 - 6081
Vice-Pres:	WD6G	Guy Corynen	2543 Dos Rios Dr. S. R.	837 - 3080
Secretary:	KB6FHE	Diana Whitten	34 Santa Lucia Ct. P.H.	676 - 6718
Treasurer:	W16Y	Mary Bradshaw	21 Altamount Dr. Orinda	376 - 0762
E. C.	: W6ZHY	Hank Berriman	42 Oak Knoll Ct. W.C.	934 - 9659
Board	: KT6Y	Jay Caldis	2890 Grande Camino W. C.	939 - 1893
Board	: KA6IUF	Jim House	Post Office Box 3444 W.C.	372 - 0345

DEADLINE FOR NEXT ISSUE: January 31, 1987...Send all copy directly to the EDITORNOT THE CLUB P.O. BOX



THE HAM SHACK OF K6TI

Here we are at the beginning of 1987. To me it seems impossible for only yesterday I was a boy and getting my first ham license. After successfully taking the exam \$25.00 got me a 210 tube, coils and capacitors for a Split-Colpitts circuit and a "slop-jar" rectifier. I had built a receiver when studying the code so I was in business, almost. A trip to the local power company netted a used pole transformer, which, when used backwards would put out 550 volts each side of center. I had to dump out the oil (filled with PCBs) and get it out of the huge case. That all was yesterday, or was it the day before? Anyway it was 58 years ago and come this summer I will have been a Ham 59 years. There must be something special about being a Ham to have held me all this time and there is--it is the people I have met. Diverse and interesting, brilliant and average but almost always worth knowing. It constantly amazed me, world famous stars I was recording at Capitol Records found I was a Ham and a special camaraderie developed. This transcended the professional relationship and moved into the realm of friendship. Some are still around, more are gone. This is the sadness of the passing years and at once the richness of Life. Time is so short and we have so much to share. None of us should waste a precious moment of it in petty disagreements. Also, as we stand at the threshold of this New Year we stand at the beginning of a new era in

Amateur Radio. The many new developments in data transmission and the view of the world we are going to hear and see from the Oscar satellites are breath taking. Oscar AO-10 is rapidly dying from radiation exposure but a new Phase III Oscar is ready for launch this year. It has been redesigned to take the "hits" at high altitude and we should have a great time with it. However, this is not the big picture. In the wings, the shadow of Phase IV is looming large. These will be sun-synchronous, Geo-stationary birds with capabilities to cover the world at all hours of the day and night. You will walk along the street and talk to a friend in another country using nothing more than your HT and your repeater link. Speeding along the freeways you will access the world as easily as you now talk across town. Packet, Amtor, SSB, FM, VHF/UHF, Amateur TV, RTTY, whatever your interest might be will be there.... I've been sniffing Coke? .. Not hardly.... The gateway accesses will bring the world to your doorstep. These are facts already going into place and should be operational within five years. I have seen many revolutions in ham radio since I got my first ticket, each more fabulous than the last. None has been as far-reaching as this new dawn of Ham Radio. It is not a dream, it is real and it is now. Amateur Radio has many of the finest minds in the world in its ranks and they are working on this system. Soon the days of tracking, plotting and chasing satellites will be another of our memories. Remember YOURS, for they are the Tapestry of Life.....
....73..Carson..K6TI....

FLASH: SET East County, 1230 hrs. January 17, 1987. BE PREPARED, THEY ARE A HOT GROUP ! Listen 147.735/-R.....

"SNOTEL" WATCHES THE SKIES

Each day more than 100 million micro-meteoroids plow into the atmosphere at speeds of dozens of miles per second. These flying objects from outer space ionize the ionosphere briefly and have long been used by Hams for communications on the VHF/UHF bands. In Europe Meteor Scatter DX has been developed to a fine art. In the U.S.A there are also many hams devoted to this mode. What is not generally known is the Federal Government uses these evanescent trails to foretell how much water you will have available next year. With the unprecedented development of micro-electronics, even private industry is looking at this phenomenon as a source of useful communications.

In Portland, Oregon, scientists of the U.S. Soil Conservation Service know within 24 hours where snow has fallen and how much. High in the Sierras where maintenance of radio relay systems is virtually impossible some 530 remote robot transmitters keep watch around the clock and collect data regarding rain, snow, and other pertinent information. There are two Master Stations, one in Ogden, Utah, the other in Boise, Idaho. These centers are tied by phone lines to the SCS computers in Portland, Oregon and every morning they poll the remote bases five times per second. They constantly call and listen. As the Solar powered remotes find a target Meteor trail they send their data, a word, a line or a letter at a time and within three hours, on the average, the scientists have all the information concerning what has

happened during the previous 24 hours from widely separated areas, all crucial to the water table forecast for the next year. This data is quickly decoded through the computers and a complete weather picture emerges. U.S. Military is also using this technology in many ways. Most of this is of a classified nature. Egypt is installing a Meteor Burst system to monitor water levels on the Nile. Gas companies are using these flying Gnats from the Cosmos to track pipeline operations and railroads use it to find lost box-cars.

Hams have been transmitting both CW and voice by this method for years but GTE just discovered voice transmission could be successfully completed by this technique. Amateur Radio has always been in the vanguard of all development and utilizing these 200 millisecond bursts to send information is one of them. It is fascinating to note, however, that SNOTEL is so successful considering the fact, the remote base has less than 200 milliseconds to recognize its call and respond by transmitting the data before the ionized trail fades away. The SCS Chief in Portland, Oregon, states, "For ten years this system has operated with great efficiency, giving us information which would otherwise be impossible to obtain." Meteor Burst communication is certainly much more than just an esoteric hobby practiced by a few Hams.

Excerpt..San Jose Mercury News.
...courtesy "...Fletch" Young
.....KB6CEC.....

MINUTES OF MEETING MDARC
BOARD OF DIRECTORS

Present: Pres. WB6PQM, Scott Miles, Secretary, KB6FHE Diana Whitten, Treasurer, W16Y Mary Bradshaw. Jay Caldis, KT6Y was available by phone for voting purposes. Non-Board members present were, WB6OFH George Roush, Carson Taylor K6TI and Dr. George Jones, soon to have a call. George has graciously taken over the duties of collating and mailing of the CARRIER after it is printed. Meeting was brought to order by Pres. Scott at 8:30 PM. The Minutes of the last meeting were accepted as published in the CARRIER. Scott said the Christmas party went very well and a good time was had by all. Special thanks were given to George Roush who put it all together.

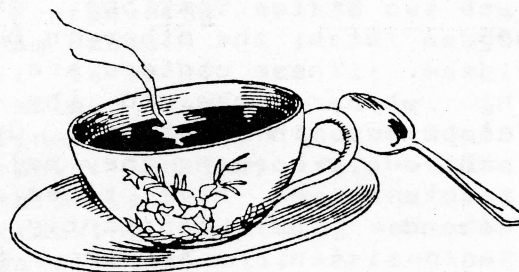
George said he has a pyrex dish belonging to someone who brought food for the feast. He will bring it to the January Club meeting or if the owner would like he/she may call George at 687 - 0912.

Mary, W16Y, reported there is \$709.20 in the Club checking account and \$213.88 in the savings account. She also has in her possession the following MDARC badges which were ordered and have not been picked up. Walt KB6MFY, Dave WR6T, Bill N6LZM, Dave N7FZY, Todd K16JE, Jim KA6IVF, Don KB6IXV, John WX6G, Don W6LXW.

Carson K6TI, gave a report on the CARRIER and a discussion was held as to its size, cost of publication and whether pictures could again be used as they had in the past. Starting in February, if all goes well the CARRIER will again have pictures.

The motion listed below was made, seconded and passed by the Board: "List candidates for Club Office in January CARRIER. At January General Meeting open the nominations from the floor. When completed and closed send ballots in the February CARRIER. At the February meeting ballots will be counted so yours must be in by that time. You may bring them to the meeting if you wish." This concluded the business of the Board but announcement was requested as follows: The Mount Diablo Amateur Radio Club will start classes in code and theory for all classes of licenses, Monday February 2, 1987 and running through Monday, May 4, 1987. Location: College Park High School in Pleasant Hill. Meeting adjourned at 9:30 P.M. for coffee and cake provided by Carson's wife, Barbara.

Respectfully submitted,
Diana Whitten, KB6FHE...Sec.



Director. Rod would appreciate a large turn-out and candid discussion of your likes and dislikes in Amateur Radio. Please come. For time and talk-in frequency please listen to the MDARC net 1930 hours Thursday evenings. Base Station and Ham Radio Outlet will also have the information. Thank You.....Lauren Styles, WA6CIE, Pres. CCRC.....

? ? ? What I can't figure out is, "How come I'm over the hill? I don't remember ever getting to the top of it." ? ? ? ? ?.....

.....

de WA6CIE Lauren..... Thank you to all who purchased raffle tickets during the past year. This made it possible for us to spend \$175.00 on prizes for the Christmas party in addition to the donated prizes. The top prize was a Kenwood TR-2600 from HRO and next were three certificates from the Base Station worth \$50, \$40, and \$30. I would like to remind members that the donated gifts are in exchange for advertising in the CARRIER. In addition we receive 25% discount on all prizes we purchase at the Base Station. On behalf of the Club I would like to extend special "Thanks" to Bob Ferrero at Ham Radio Outlet and Art Mayhoff of the Base Station. Happy New Year to all.....Lauren.

MDARC MERIT AWARDS FOR 1986.

HAM OF THE YEAR
Joe Gregory WA6DQN

KILROY KEY
Dick Brown KT6X

CCRC SPECIAL MEETING

5

SPECIAL MERIT AWARDS

Jay Caldis KT6Y
Lauren Styles WA6CIE
George Roush WB6OFH
Carson Taylor K6TI

PRESIDENTS GAVEL

Scott Miles WB6PQM

+++++

THE PREZ SEZ:

Another Year has passed and this has been a great holiday season. The Christmas Party was a fine success because George Roush WB6OFH and company did such an outstanding job of organization. George and crew took care of all the set up and take down of the recreation hall and made sure everything was properly clean. He has agreed to take on this task again this year and I am sure it will be even better in 1987.

Elections had to be delayed due to lack of participation but we have a partial slate which will be completed from the floor at the January meeting. Ballots will be sent in the February CARRIER and counted at the February General Meeting. The newly elected officers will also be installed at that meeting. I have been asked by several members to run for another term so you may see my name on the list of Nominees.

Classes for new and up-grade licenses will be starting soon and I sincerely hope many of you will take advantage of this. My Father has finally decided to give it a try. Now I'll never get rid of him ! !

Many thanks to Carson Taylor K6TI and his wife, Barbara, who spend a great deal of time on the CARRIER. George Jones, soon to be a novice is assisting with the collating, folding, stamping addressing and mailing. This is a great help.

I hope everyone of you has a had

a good Christmas and Holiday Season and I will see you all at the January meeting.

.....Scott WB6PQM, Pres.MDARC...

#####

HAM OF THE YEAR PROFILE

Joe Gregory WA6DQN, recipient of this prestigious MDARC award, was born in Eureka Calif. His childhood was spent in Copperopolis in the foothills of the Sierra Nevadas. He attended school at UC Berkeley and a few years at Duluth, Minnesota. He holds a Doctorate in Paleontology from Berekely and spent a postdoctoral year at the Museum of Natural History in New York City. Positions in Texas, Michigan, the U.S. Air Force, and Yale University brought him back to his native California as a member of the Paleontology faculty at his Alma Mater, UC Berekely. In 1979 he retired but continues research and editorial work on the campus. An early fascination with radio lacked proper direction and it was not until his son obtained an Amateur license, while a student at Northwestern University, that he was put on the "right track." His son said, "So we can communicate, Dad." Like most of us Joe started out with small and simple rigs but now runs an Icom-730. He first purchased this for his field camp in Nevada but no one could hear him except Parky. His antenna was a small dipole strung between two Pinyon pine trees. He says he did finally contact Alaska from that QTH. He still enjoys building radios and various electronic gear which sometimes even work. His junk-box is full of the ones that didn't. He recently ventured into Packet and is now running a Packratt-232 with a Radio Shack Model 100 computer and is also on 220mhz.

The unfortunate death of Dick Webster WA6OJT brought Joe into the Lafayette Emergency Council as RACES representative. For the past two years he has been doing an excellent job of developing an effective communications group. He puts in a great many hours planning, meeting with necessary persons and trying to infect them with the same sense of dedication and urgency that Joe personifies. This type of effort requires details, details and still more details, and Joe is the man who tries to keep all the various factors on track for Lafayette. He has done an outstanding job. That is why he is the HAM OF THE YEAR. You will always see and hear Joe WA6DQN when there is something doing that requires service.....

#####

W6CX GOES 450

The Rocky Ridge Repeater Group is proud to announce the acquisition of a 450 Mhz. General Electric Master Pro Repeater. This machine is operating on a frequency of 441.325 Mhz. and is presently not in PL protection. So for the moment, any of you who have rigs for this frequency, may access this new repeater and have fun. Don't be confused by the CW identifier which is still signing "W6NKF". This will be changed to W6CX/R in due time. Our new rig is putting out about 60 watts into a 4-bay dipole and covers the Diablo and Sacramento valleys, parts of Berkeley and Oakland and all of San Francisco, San Jose and the South Bay. Get on, meet new friends and have a good time. The machine is a hybrid since it uses mostly solid state but the final sections of the transmitter use tubes. The Master Pro repeaters have put in many years of good, reliable commercial service.

They are popular among amateur repeater owners because of their reliability, ease of repair and availability of spare parts. This unit will eventually be interfaced with our two other units to form an integrated system which will be very flexible and useful.

Tower problems continue to plague the 220 machine. I am working with the chief engineer of the group who own the tower in an attempt to solve our problems. He has agreed to do our antenna work since commercial users were allowed to move in on top of us. We are supposed to have unobstructed tower space but two commercial users have moved in right next to our antennas. This has caused radiation problems, but more importantly, has prevented us from installing our new Sinclair antennas. The owner has agreed to relocate one of our antennas and to install both the new Sinclairs.

Until we are able to clear up the 220 problem RRRG members will have to use the "sleep" codes to wake it up and use it. If the two meter box is also "asleep", awaken it the same way. If you do bring up the machines by the sleep, awaken codes please return them to the asleep state when you are through.

The next meeting of the RRRG is Jan. 21, 1987. Those who wish to join the group, help support the repeaters and be able to use the machines when they are "asleep" stop by Don Proxman's QTH on the 21st and join in.....
...73...de Rick WB6EZI.....



Ham Radio Outlet

999 Howard Ave.
Burlingame, CA 94010
(415) 342-5757

2210 Livingston
Oakland, CA 94606
(415) 534-5757

Hours: 10 AM to 5:30 PM
Monday through Saturday

KENWOOD-ICOM-YAESU
MOST MAJOR BRANDS/ITEMS
IN STOCK AT LOW DISCOUNT PRICES

SPECIAL

	SALE PRICE
<u>U.S.TOWER</u>	
MA-40 Tubular Crankup	\$549.95
MA-550 Tubular Crankup	899.95
(DISCOUNTS AVAILABLE ALL MODELS)	

<u>ICOM</u>	
IC-3200 Dual Bander	\$479.95

<u>KENWOOD</u>	
TS-440s/AT HF W/Tuner	\$1019.95
TS-940/AT HF W/Tuner	\$1899.95

<u>YAESU</u>	
FT-757GX HF Transceiver	\$899.95

OUR ONLY BUSINESS IS HAM RADIO

HAM RADIO OUTLET
HAS THE LARGEST
AMATEUR RADIO
INVENTORY IN CALIFORNIA

Prices subject to change
without notice

ATTENTION ALL MDARC MEMBERS

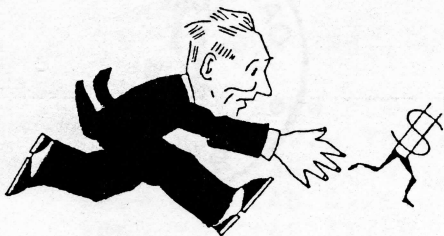
Now is the time.. It is the first of the year and ALL members dues are now payable..As a matter-of-fact by the constitution any one of us not paying by January 31, 1987 is thereby suspended and delivery of the CARRIER is to stop. So-o-o-o come to the January meeting ready, willing and able to pay \$15.00 for the year. A bargain. You get the CARRIER, you get programs and you get a chance to make new friends at the ALL NEW 40 YEAR old club that is going through a rebirth. You will have more fun, learn more, and be forever grateful that you parted with that \$15.00. See you at the meeting, money in hand. Of course Uncle Sam will still bring it if you can't make the meeting. Send it to the membership chairman at the Club P.O box. Box no. is on front cover of this publication. *****
NEW MEMBERS JUST COME ON BY AND PAY YOUR DUES. Applications will be on hand I did not have enough space to include them. If you mail a request to join please include all vital statistics, Call, license grade, gear you have and the interests you have. RACES/ARES etc. Are you available for emergency service? Can you participate in programs etc. Write us a book, it may be a best seller.....



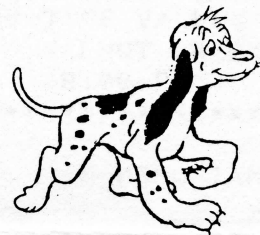
THIS PAGE IS GOING TO BE
RESERVED FOR CLASSIFIED ADS.....

WHILE I WAS ILL WITH THE FLU I
RECEIVED A REQUEST FOR AN AD
FROM SOMEONE WANTING TO GIVE
SOME HAM GEAR AWAY, FREE. THIS
I REGRET, I MISPLACED THE
LETTER.

I WAS ILL FOR TWO WEEKS AND I
JUST CAN'T FIND THAT NOTE. IF
YOU ARE THE ONE PLEASE SEND ME
ANOTHER AND IT WILL BE IN THE
NEXT CARRIER. ACCEPT MY SINCERE
APOLOGY.....



.....One of life's
unchanging Laws.....
"All friendly dogs have dirty
paws.".....



ADDS FOR FREE GEAR WILL BEAR NO
CHARGE. REGULAR CLASSIFIEDS
FOR SALE OF MERCHANDISE OR
SURPLUS GEAR WILL BE CHARGED AT
THE RATE OF 20 CENTS PER COLUME
LINE. THIS RATE IS FOR PRIVATE
INDIVIDUALS ONLY.....

Concord, CA 94520 (415)685-7388

1839 East St. (across from Sattlers

YAESU

BEARCAT HUSTLER SPEAKERS

BALUNS GORDON WEST WELZ METERS

B & W CUSHCRAFT 2 MTR AMPLIFIERS

AMECO CONNECTORS REGENCY

ARRL COAX CABLE MFJ NYE

ASTRON CALLBOOKS HAM PUBLICATIONS

AVANTI BUTTERNUT LARSEN

AEA BENCHER FERRITE RODS

YOUR CONTRA COSTA HAM HEADQUARTERS
FOR YOUR AMATEUR RADIO NEEDS.

THE BASE STATION

Don't forget to renew your ARRL membership
through the Club. Send us the card and money.
We forward to the ARRL and get to keep
\$2.00.



DK#EE

SISTER CLUB

The CARRIER

From:
Mt. Diablo Amateur Radio Club, Inc.
P.O. Box 23222
Pleasant Hill, Calif. 94523

Affiliated with the ARRL
Affiliated with the American Red Cross

FIRST CLASS MAIL

